

SEP 21 2001
U.S. PATENT & TRADEMARK OFFICE

Sullivan Law Group

A Professional Corporation

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Patents, Trademarks, Copyrights,
Related Intellectual Property Law
Federal Government Procurement Law

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September 21, 2001

Via Express Mail

Assistant Commissioner
for Patents
U.S. Patent and Trademark Office
Washington, D.C. 20231

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***Re: U.S. Utility Patent Application Entitled "SYNTHESIS OF
ENERGETIC THERMOPLASTIC ELASTOMERS
CONTAINING OLIGOMERIC URETHANE LINKAGES"
Serial No. 09/436,440
Our Ref.: 1082-372***

Dear Sir:

We hereby submit the following documents in connection with U.S. Patent Application 09/436,440:

1. Power of Attorney (with revocation of previous powers) (1 page);
2. Statement under 37 C.F.R. § 3.73(b) (1 page), including Certificate of Change of Name and Assignment for application; and
3. Post Card.

Please direct all future correspondence to the following address:

Sullivan Law Group
5060 North 40th Street
Suite 120
Phoenix, Arizona 85018

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If any fees are determined to be missing or deficient or are otherwise due in connection with this application, please charge the deficiency to our Deposit Account No. 501324.

Please give us a call if you have any questions or wish to discuss this matter.

Sincerely,


Stephen T. Sullivan
David S. Taylor

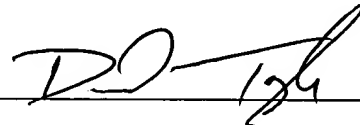
STS/DST/lam
Enclosures

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Express Mail Label No. EL800112675US
Date of Deposit September 21, 2001
I hereby certify that the above-listed attachments are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed Assistant Commissioner for Patents, U.S. Patent and Trademark Office, Washington, D.C. 20231.



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PTO/SB/81 (10-00)
Approved for use through 10/31/2002. OMB 0651-0035
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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	09/436,440
Filing Date	November 9, 1999
First Named Inventor	Sanderson
Group Art Unit	3641
Examiner Name	Miller, E.
Attorney Docket Number	1082-372

I hereby appoint:

☐ Practitioners at Customer Number
OR

Place Customer
Number Bar Code
Label here

☒ Practitioner(s) named below:

Name	Registration Number
Stephen T. Sullivan	32,444
David S. Taylor	39,045

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.
OR

☒ Firm or
Individual Name

Sullivan Law Group

Address 5060 North 40th Street

Address Suite 120

City Phoenix

State

AZ

ZIP

85018

Country U.S.A.

Telephone 602 956 6161

Fax

602 956 6262

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name Ann D. Davidson

Signature *Ann D. Davidson V.P. Alliant Techsystems Inc.*

Date 9/7/2001

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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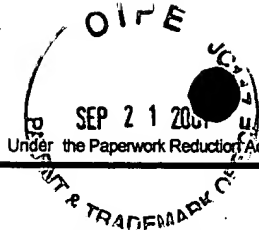
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Alliant Techsystems Inc.

Application No./Patent No.: 09/436,440

Filed/Issue Date: November 9, 1999

Entitled: Synthesis of Energetic Thermoplastic Elastomers Containing Oligomeric Urethane Linkages

Alliant Techsystems Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Sanderson et al. To: Cordant Technologies Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 010533, Frame 0332, or for which a copy thereof is attached.

2. From: Cordant Technologies Inc. To: Thiokol Propulsion Corp.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: Thiokol Propulsion Corp. To: Alliant Techsystems Inc.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE]: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

9/7/2001
Date

Ann D. Davidson
Signature

Ann D. Davidson

Typed or printed name

Vice President & General Counsel

Title



CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION
OF

CORDANT TECHNOLOGIES INC.

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Cordant Technologies Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of said corporation, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the "Certificate of Incorporation of said corporation:

RESOLVED, that the "Restated Certificate of Incorporation of Cordant Technologies Inc. be amended by changing the first Article thereof so that, as amended, said Article shall be and read as follows:

"The name of the Corporation is Thiokol Propulsion Corp."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said Cordant Technologies Inc. has caused this certificate to be signed by Perni A. Hite, its Vice President and Secretary, this 20th day of April, 2001.

ALLIANT TECHSYSTEMS INC.
Sole Shareholder

By: Perni A. Hite
(Vice President & Secretary)

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STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 06:00 PM 04/20/2001
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State of Delaware

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Office of the Secretary of State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "CORDANT TECHNOLOGIES INC.", CHANGING ITS NAME FROM "CORDANT TECHNOLOGIES INC." TO "THIOKOL PROPULSION CORP.", FILED IN THIS OFFICE ON THE TWENTIETH DAY OF APRIL, A.D. 2001, AT 6 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

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Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 1092886

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DATE: 04-20-01



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PATENT RIGHTS ASSIGNMENT

This Assignment is made and executed by Thiokol Propulsion Corp., a Delaware corporation with its principal place of business located at 9160 N. Highway 83, P.O. Box 707, Brigham City, Utah 84302-0707 (hereinafter "Assignor"), to and in favor of Alliant Techsystems Inc., a Delaware corporation having its principal place of business at 5050 Lincoln Drive, Edina, MN 55436 (hereinafter "Assignee").

Whereas Assignor previously received the entire right, title and interest in and to all patent applications listed in Attachment A attached hereto and patents listed in Attachment B attached hereto; and

Whereas Assignor desires to assign his entire right, title and interest in and to all patents and patent applications, to Assignee for valuable consideration; and

Whereas Assignee has provided such valuable consideration to Assignor;

Accordingly, the parties agree as follows:

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1. Assignor hereby conveys and assigns to Assignee Assignor's entire right, title and interest in and to the Patents and Patent Applications and the inventions disclosed in them, including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the Patents and Patent Applications, and including all patents and reissues resulting from the Patent Applications.

2. Assignor hereby assigns to Assignee Assignor's entire right, title and interest in and to all counterparts to the Patents and Patent Applications that have been or may be filed outside the United States, whether pursued as a patent, an inventor's certificate, a utility model or the like, including all rights of priority based on the Patents and Patent Applications, further including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the non-U.S. counterparts, and still further including all patents, inventor's certificates, utility models and reissues based upon or resulting from any of the non-U.S. counterparts.

3. Assignor hereby grants to Assignee the sole and exclusive right to prosecute the Patents and Patent Applications and all related patents and applications as described in Paragraphs 1 and 2 above, as well as any opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings. Assignor authorizes all governmental bodies having the power to issue patents, reissues, inventor's certificates or utility models to issue a patent, reissue, inventor's certificate or utility model based on

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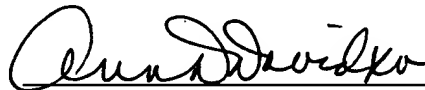
the Patents and Patent Applications or any related applications as described in Paragraphs 1 and 2 above in the name of Assignee.

4. Assignor agrees upon request and without further consideration, but at Assignee's expense: (a) to assist Assignee in prosecuting the Patents and Patent Applications and all related applications as described in Paragraphs 1 through 3 above, as well as opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings; (b) to provide Assignee with information concerning the Patents and Patent Applications to enable Assignee to obtain, secure and protect the rights granted under this Assignment; (c) to sign papers, take oaths and testify in legal proceedings to enable Assignee to obtain, secure and protect the rights granted under this Assignment; and (d) to perform all acts reasonably necessary to enable Assignee to obtain, secure and protect the rights granted under this Assignment.

5. Assignee may assign the rights under this Assignment in whole or in part. All references herein to Assignee include any successors or assigns of Assignee.

6. Assignor acknowledges that Assignee has provided valuable consideration for the rights granted under this Assignment.

September 7, 2001
Date


Ann D. Davidson
Assistant Secretary

On this 7th day of SEPTEMBER, 2001 Ann D. Davidson, who is known to me to be the person whose name is subscribed to the foregoing instrument, personally appeared and executed the foregoing instrument for the purposes therein contained.

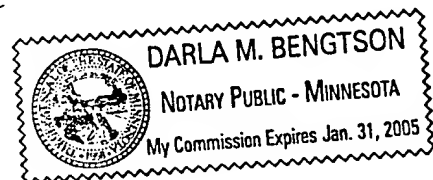
IN WITNESS WHEREOF, I have set my hand and official seal.



Notary Public

My Commission Expires:

01-31-2005





ATTACHMENT A (PATENT APPLICATIONS)

60/279,560
60/227,176
60/267,961
60/267,962
60/246,399
60/266,030
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ATTACHMENT B (PATENTS)

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